(c) the power production during the last five years, year-wise; and

(d) the figure for China during the corresponding period?

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE): (a) and (b) Generation targets are fixed on a year to year basis. For the year 2007-08, a generation target of 710 Billion Units (BU) including import from Bhutan, has been fixed. The actual power generation in the country during April-October, 2007 was 409.85 BU against the programme of 411.45 BU, which is 99.6% of the programme. The main reasons for shortfall in generation were shortage of gas for gas based power stations and constraints of fuel supply for nuclear power stations.

(c) The details of power generation during the last five years are given below:

Year	Target (BU)	Actual Generation (BU)	Achievement(%)
2002-03	545.55	531.61	97.4
2003-04	572.90	55834	97.5
2004-05	586.41	587.42	1002
2005-06	621.50	617.51	99.4
2006-07	663.00	662.52	99.9
TOTAL	298936	2957.40	98.9

(b) According to the figures available on the website of National Bureau of Statistics of China *(http:www.stats.gov.cn/topl.html),* the year-wise total energy available for consumption in China during the period 2001-2005 was as under:

(Figures in Billion Units)

2001	1463
2002	1633
2003	1903
2004	2197
2005	2494

Standardization of equipments for thermal power plants

1430. SHRI TAPAN KUMAR SEN:
SHRI PRASANTA CHATTERJEE:

Will the Minister of POWER be pleased to state:

(a) whether standardization of equipments for thermal power plants, including those having supercritical technology is being done through Central Electricity Authority (CEA), to ensure timely availability of spare parts at reduced cost as well as to facilitate proper maintenance management; and

(b) if not, the reasons therefor?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) and (b) As part of various efforts being made to expedite execution of thermal power projects, standardization of equipment is being encouraged. Standardization is expected to lead to uniform design practices by various utilities and facilitate bulk manufacture by the equipment manufacturers, reducing project execution time and cost. This would also standardize spares requirements and could lead to more optimal inventory and maintenance management.

However, design of thermal power plants is largely governed by site specific factors including plant capacity and unit configuration, location (pit head, load center, coastal), green field or expansion project, coal quality, water quality and soil properties. These factors make standardization difficult especially for balance of plant.

Standard specifications for main plant equipment (boiler, turbine and generator) for 500 MW+20% (500 to 600 MW) unit size are under development by CEA in consultation with utilities and manufacturers. As the supercritical technology is presently under introduction in the country, standardization of this technology is considered premature at this stage.

Shortage of Power

† 1431. SHRI JAI PARKASH AGGARWAL: Will the Minister of POWER be pleased to state:

(a) whether there is an acute shortage of power in the country;

(b) if so, the details in that reaged; and

(c) the location-wise details of power projects running with the help of World Bank in the country during the last five years?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) and (b) There is an overall shortage of power in the country. The quantum of shortage varies from State to State on season to season, day to day and hour to hour depending on the demand and supply of power. During the period April-October, 2007 the energy and peaking shortage in the country was 7.3% (30,705 MU) and 14.6% (15,939 MW) respectively.

(c) World Bank assistance is provided for construction of power projects and not for their operation. The details of power generation projects commissioned/being constructed in the country with World Bank assistance since beginning of 2002-03 are given below:

SL No.	Project/Unit	State	Executing Agency	Capacity (MW)	Commissioning Date
1.	Talcher STPP STAGE-II	Orissa	NTPC		
	Unit-3			500	04/01/2003
	Unit-4			500	25/10/2003
	Unit-5			500	13/05/2004
	Unit-6			500	06/02/2005
2.	Rampur HEP	Himachal Pradesh	Satluj Jal Vidyut Nigam Limited	412	Under Construction

† Original notice of the question was received in Hindi